Single-Cell Genomics and Proteomics: Emerging Technologies and Markets

Description:

This report provides:

- An overview of the global markets and emerging technologies for single-cell genomics and proteomics.
- Cell isolation technologies including flow cytometry, laser capture microscopy, micromanipulation.
- Sample preparation technologies including microfluidics, whole genome amplification/ pre-amplification.
- Analyses of next generation sequencing, qPCR/PCR, microarrays, mass spectrometry, microfluidics.
- End use industry coverage including research, drug discovery and development, diagnostics, and applied.
- Evaluation of the market’s dynamics including growth drivers, restraints, and opportunities.
- Profiles of major players in the industry.

Highlights

The global single-cell analysis market was valued at $541.2 million in 2014. This market is projected to grow from $626.2 million in 2015 to $1.6 billion in 2020, a compound annual growth rate (CAGR) of 20.7% from 2015 to 2020.

The global market for single-cell analysis products among research, drug development and applied end users is expected to increase from $386.1 million in 2015 to $808.5 million in 2020, a CAGR of 15.9% from 2015 to 2020.

The global single-cell analysis diagnostics market segment is expected to increase from $240.1 million in 2015 to $796.8 million in 2020 with a CAGR of 27.1% from 2015 to 2020.

Scope of The Report

The scope of the report includes single-cell analysis technologies, applications, industries, major funding initiatives, patents and companies. The market sizes for single-cell products are given for the years 2014, 2015 and 2020. This report reviews the single-cell workflow steps and technologies and provides background on why single-cell analysis is important. It then discusses some of the top research initiatives that are contributing to the growth of single-cell applications. Market driving forces are also discussed.

The structure of several important industry subsectors are reviewed as well as major industry acquisitions and strategic alliances from 2013 to the present. Industry subsectors analyzed include NGS instruments, droplet digital PCR, single-cell proteomics, target enrichment and amplification, single-cell DNA polymerase, preimplantation genetic diagnosis and screening, liquid biopsy and immune sequencing.

The market for single-cell analysis technologies is analyzed in depth. The market is analyzed by end user, application, product type, field of use, analysis method, workflow step and geography.

The single-cell diagnostics market is analyzed by indication and by test purpose. Specific geographic markets are discussed, including North America, Europe, Asia-Pacific and the rest of the world (ROW). Market data covers the years 2014, 2015 and 2020.

More than 75 companies in the single-cell analysis industry are profiled in this report. The author provides a summary of the main industry acquisitions and strategic alliances from 2013 through 2015, including key alliance trends.

Contents:

Chapter 1: Introduction
- Study Goals And Objectives
- Reasons For Doing The Study
- Contribution Of The Study And For Whom
- Scope And Format
Chapter 2: Executive Summary
- Table Summary: Global Single-Cell Analysis Market By End User Industry, Through 2020
- Figure Summary: Global Single-Cell Analysis Market By End User Industry, 2014-2020

Chapter 3: Overview
- Introduction
- Report Scope
- Workflow
- Technology Challenges
- Markets
- Growth Driving Forces
- Key Trends
- Industry

Chapter 4: Technologies
- What Makes Single-Cell Analysis Unique
- Single-Cell Analysis Workflow
- Cell Isolation Technologies
- Sample Preparation Technologies
- Analysis Technologies

Chapter 5: Single-Cell Initiatives
- Single-Cell R&D

Chapter 6: Applications
- Introduction
- Human Identification
- Agriculture

Chapter 7: Single-Cell Analysis Industry
- Introduction
- Ngs Instrument Industry
- Droplet Digital Pcr Industry
- Single-Cell Proteomics Industry
- Target Enrichment And Amplification Industry
- Single-Cell Dna Polymerase Industry
- Preimplantation Genetics Diagnosis And Screening Industry
- Liquid Biopsy Industry
- Immune Sequencing Industry

Chapter 8: Acquisitions And Strategic Alliances
- Acquisitions
- Strategic Alliances

Chapter 9: Markets
- Forces Driving Growth
- Single-Cell Analysis Type Market
- Single-Cell Analysis End User Markets
- Single-Cell Analysis Workflow Step Markets
- Single-Cell Analysis Diagnostics Markets
- Single-Cell Analysis Geographical Market

Chapter 10: Patents

Chapter 11: Company Profiles
- Overview
- 10X Genomics
- Accelerate Diagnostics Inc.
- Affymetrix
- Agilent Technologies Inc.
- Angle Plc
- Apocell
- Asuragen Inc.
- Atreca Inc.
- Aviva Biosciences
- Becton, Dickinson And Co.
- Berry Genomics Co. Ltd.
- Bgi Shenzhen
- Bioarray S.L.
- Biocept Inc.
- Biofluidica Inc.
- Bio-Rad Laboratories Inc.
- Boreal Genomics
- Celgene
- Cell Microsystems Inc.
- Cellular Research Inc.
- Chronix Biomedical
- Circulomics Inc.
- Clontech Laboratories Inc.
- Cynvenio Biosystems Inc.
- Cytotrack Aps
- Danaher Corp.
- Denovo Sciences Inc.
- Diagnologix Llc
- DNA Electronics Ltd.
- Enumeral
- Epic Sciences
- Exosome Diagnostics Inc.
- Fluidigm Corp
- Fluxion Biosciences Inc.
- GE Healthcare
- Genomic Health Inc.
- Gigagen Inc.
- Good Start Genetics Inc.
- HTG Molecular Diagnostics Inc.
- Illumina Inc.
- Johnson & Johnson
- Kellbenx Inc.
- Laboratory Corp. Of America Inc.
- Merck Kgaa
- Natera Inc.
- New England Biolabs
- New Oncology Ag
- Nodality Inc.
- Nugen Technologies Inc.
- Oxford Gene Technology
- Oxford Nanopore Technologies Ltd.
- Pacific Biosciences Of California Inc.
- Perkin Elmer Inc.
- Personal Genome Diagnostics Inc.
- Pgxl Laboratories
- Picoseq
- Qiagen Nv
- Raindance Technologies Inc.
- Rarecells Sas
- Rarecyte Inc.
- Reproductive Health Science Pty Ltd
- Reprogenetics
- Resolution Bioscience Inc.
- Roche Holding Ag
- Rubicon Genomics
List Of Tables

Summary Table : Global Single-Cell Analysis Market By End User Industry, Through 2020
Table 1 : Key Single-Cell Analysis Market Segments Covered
Table 2 : Single-Cell Analysis Workflow
Table 3 : Global Single-Cell Analysis Market By Application Field, Through 2020
Table 4 : Single-Cell Analysis Market Growth Driving Forces
Table 5 : Trends In Single-Cell Analysis
Table 6 : Single-Cell Analysis Industry Subsectors
Table 7 : Unique Technical Challenges Of Single-Cell Analysis
Table 8 : Single-Cell Analysis Workflow
Table 9 : Cell Differentiators
Table 10 : Cell Isolation Technologies
Table 11 : Single-Cell Sample Preparation Technologies
Table 12 : Single-Cell Analysis Technologies
Table 13 : Top-Ten Single-Cell Research & Development Projects
Table 14 : Single-Cell Analysis - Near- To Mid-Term Applications
Table 15 : Key Objectives Of Basic Single-Cell Biology
Table 16 : Ssa Analysis To Identify Cancer Driver Mutations
Table 17 : Stem Cells Types
Table 18 : Biomarkers In Liquid Biopsy
Table 19 : Factors In Tissue Biopsy
Table 20 : Preimplantation Genetic Diagnosis And Screening Applications
Table 21 : Key Segments Within The Single-Cell Analysis Industry
Table 22 : Next-Generation Sequencing Instrument Companies Summary
Table 23 : Advantages Of Droplet Digital Pcr For Single-Cell Analysis
Table 24 : Droplet Digital Pcr Industry
Table 25 : Single-Cell Proteomics Industry
Table 26 : Single-Cell Target Enrichment Industry
Table 27 : Single-Cell Dna Polymerase Industry
Table 28 : Preimplantation Diagnostics Platforms
Table 29 : Preimplantation Genetic Diagnosis And Screening Industry
Table 30 : Liquid Biopsy Industry
Table 31 : Immune System Profiling Industry
Table 32 : Single-Cell Industry Acquisitions, January 2013 Through August 2015
Table 33 : Single-Cell Industry Strategic Alliances, January 2013 Through August 2015
Table 34 : Analysis Of Forces Driving Growth Of The Single-Cell Market
Table 35 : Global Single-Cell Analysis Market By Analysis Type, Through 2020
Table 36 : Global Single-Cell Genomics Analysis Market By Technology, Through 2020
Table 37 : Global Single-Cell Analysis Market By End User Industry, Through 2020
Table 38 : Global Single-Cell Analysis Market By Workflow Step, Through 2020
Table 39 : Global Single-Cell Cell Isolation Analysis Market By Type, Through 2020
Table 40 : Global Single-Cell Diagnostics Market By Indication, Through 2020
Table 41 : Global Single-Cell Cancer Diagnostics Market By Test Purpose, Through 2020
Table 42 : Global Single-Cell Cancer Diagnostics Market By Indication, Through 2020
Table 43 : Global Single-Cell Analysis Market By Geography, Through 2020
Table 44 : Single-Cell Technology Patents By Region, 2005-August 2015
Table 45 : Single-Cell Patents By Workflow Step, 2005-August 2015
Table 46 : New Platforms Introduced By Illumina In 2015
Table 47 : Commercial Sequencer Competitive Positioning
Table 48 : Wafergen Strategic Alliances

List Of Figures

Summary Figure : Global Single-Cell Analysis Market By End User Industry, 2014-2020

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